

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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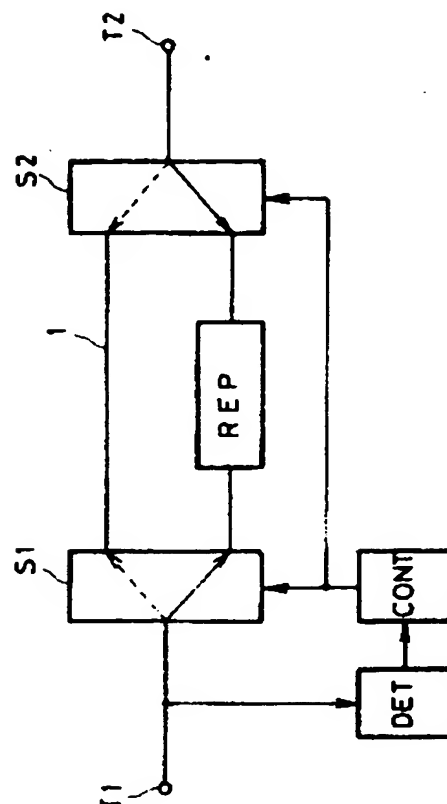
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TITLE : REPEATER BYPASS CONTROLLING  
CIRCUIT



**ABSTRACT :** PURPOSE: To execute a bypass control of a repeater by only a signal transmission line, by bypassing a signal reproducing circuit, when a test start signal has been detected, and inserting the signal reproducing circuit into the transmission line, when a test end signal has been detected.

**CONSTITUTION:** In case of executing a transmission line test, a test control signal detecting circuit DET detects a test signal, and a switch controlling circuit CONT switches selecting switches S1, S2 to a bypass line 1 side. As a result, an input terminal T1 and an output terminal T2 of a repeater are connected directly, and a bypass mode is formed. Accordingly, the repeater can be regarded a part of the transmission line electrically. When a testing signal is received once, a switch controlling circuit CONT holds a state of the selecting switches S1, S2. Accordingly, it is unnecessary to make a control signal flow continuously in the course of a test. In this state, when the test control signal detecting circuit DET receives a test end signal, the switch controlling circuit CONT switches the selecting switches S1, S2 to a signal reproducing circuit REP side. In this way, the repeater becomes a reproduction repeating mode again.

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